



Aviation Education News

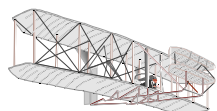


Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

August 2003

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**Centennial of Flight
Commission
Website**

www.centennialofflight.gov

**How will your school, class, or
organization be celebrating the
Centennial of Flight?**

Send us a note and we'll include
your ideas in future newsletters.

**2003/04 Virginia Aviation
Teachers Grant Applications will
be available soon. For more
information visit
www.doav.state.va.us**

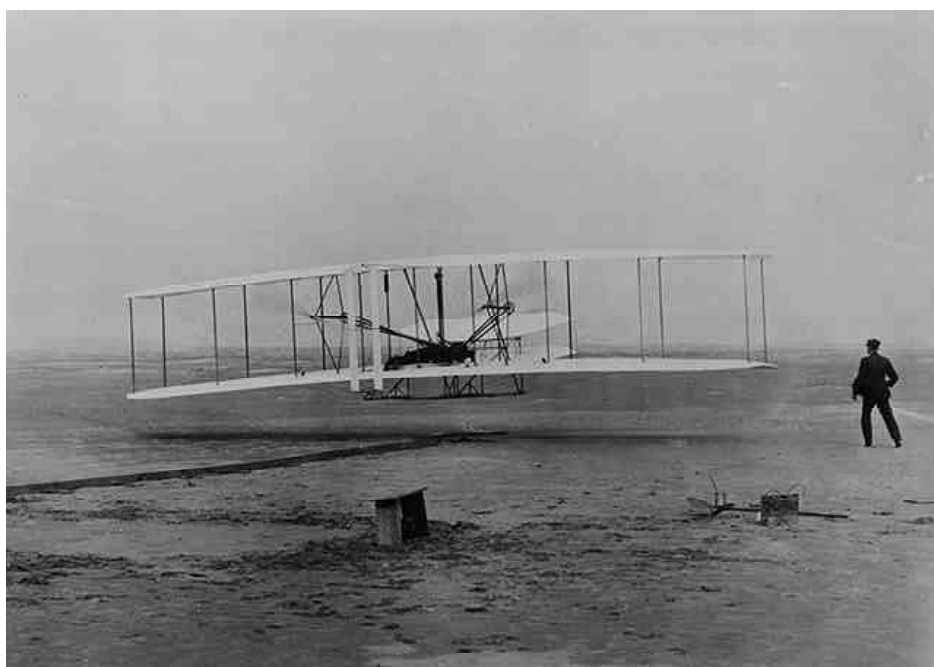
100 Years of Powered Flight 1903-2003



At 10:35 a.m. on December 17, 1903 in a remote location off the coast of North Carolina, the world changed forever...

Orville Wright climbed aboard the wood and cloth machine. He released the wire that held the machine to the track and it started forward into the wind. It lifted from the track after a forty-foot run. The course of the flight was erratic and ended 12 seconds later at a distance of a little over 120 feet from where it started...

The first powered, controlled airplane flight had just taken place.



PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Education (OEd) is continuing to work in collaboration with the Virginia Department of Aviation, and the Virginia Department of Education to maintain two way communication between federal and state education efforts.

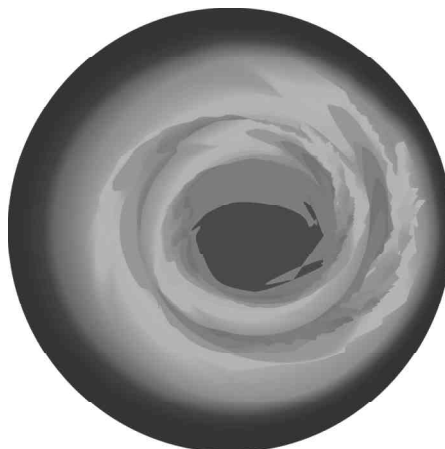
NASA's education outreach endeavors to partner with educational institutions and an invitation was extended to the Virginia Aviation and Space Center (VASC), and these efforts have led to Dr. Richard Byles, director of education. The VASC also provides hands-on activities, camp in and teacher workshops, which are tied to the Virginia SOLs.

NASA Langley is a primary site for distance learning. The following web sites are suggested:

http://ksnn.larc.nasa.gov	(Grades K-5)
http://live.larc.nasa.gov	(Learning Through Interactive Videoconferencing Experiences)
http://scifiles.larc.nasa.gov	(Grades 3-5)
http://connect.larc.nasa.gov	(Grades 6-8)
http://destination.larc.nasa.gov	(Adult Learners)

AIAA has openings for positions for teachers to become "Educator Associates". The benefits are as follows: Participation in local AIAA activities, attend AIAA conferences free, tap into AIAA clearinghouse of aerospace information, gain recognition for efforts in education and lastly, qualify for up to a \$200 grant to push your science, math, or related academic agenda forward. They have developed innovative programs for obtaining an AIAA Foundation Education Classroom Aid Grant. For information contact: Lisa Bacon, 800-639-AIAA, ext. 527 or via e-mail lisab@aiaa.org.

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<http://edu.larc.nasa.gov/>



VASEF AVIATION EDUCATION NEWS is published quarterly in support of aviation education in the Commonwealth of Virginia by the Virginia Department of Aviation.

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VASEFPURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

2004 International Aviation Art Contest

Contest Information

This Year's Deadline

Entries must be postmarked by January 10, 2004, and must be sent to your state's sponsor office (see return address on this brochure).

This Year's theme

This year's theme is "Flying Saves Lives!" Artwork will be judged, at least in part, for its creative use of this year's theme in relation to the aviation world.

Eligibility

All children in the age groups shown below are encouraged to participate in the Contest, even if they are related to officials or employees of the FAI or any of its member organizations.

Age Groups

Entries will be judged in three classes (determined by the age of the entrant on December 31, 2003).

I. Ages 6 to 9; II. Ages 10 to 13; III. Ages 14 to 17

State Awards

Entries in each age group will be judged and state winners and runners-up will be selected. Winners will receive a certificate and recognition from their state. The top three entries in each age group will be forwarded to Washington, D.C., to participate in the national competition.

National Awards

A national winner and two runners-up will be selected from each age group. All national winners will receive certificates, ribbons, a framed reproduction of their artwork, and a professional work of art compliments of the American Society of Aviation Artists.

International Awards

The national winners and runners-up in each age group will be forwarded to FAI headquarters for international judging. Winners of the international competition will receive certificates and gold, silver, or bronze medals.

Contest Rules

Artwork Dimensions

Artwork size should be 11 x 17 inches. Due to international criteria, 8.5 x 11 entries are **NOT** eligible. Artwork must **NOT** be framed, mounted, or outlined with borders. All artwork must be hand made using any of the following media: Watercolor, acrylic or oil paints,

indelible markers, colored pencils, felt-tip pens, soft ball-point pens, indelible ink, Crayola, or similar indelible mediums.

The following media are **NOT** permitted: Pencil, charcoal or other non-permanent medium, computer generated artwork, or collage work involving the use of photocopies.

Certification

A parent, guardian or art teacher must certify the authenticity of artwork and the age of each artist. (U.S. judges will issue certificates of authenticity to national winners for international competition).

Reproduction Rights

Once received, entries will become and remain the property of the Federation Aeronautique

Internationale (FAI) or state sponsor and may be used for a variety of purposes.

Sponsors

The 2004 International Aviation Art Contest is sponsored by the National Aeronautic Association, National Association of State Aviation Officials, National Aeronautics and Space Administration, and the Federal Aviation Administration, in cooperation with the Federation Aeronautique Internationale (FAI), to motivate and encourage

young people of FAI-member nations to become more familiar with and participate in aeronautics, engineering, and science. For more information, contact your local state aeronautics or aviation bureau.



About the Art Contest Theme: "Flying Saves Lives"

First and foremost, powered flight began as an adventure — a sport. In the beginning, flying was a risky business that was not for the faint of heart; injury, or even death, was something that pilots had to consider each and every time they went up. But over the 20th century, as powered flight became more stable, routine, and safe, it also became less and less the sport of daredevils and more and more a way to transport people and goods rapidly over long distances. During this time, powered flight also became something else — it became a means of saving people's lives. Today, helicopters fly rural accident victims to far away hospitals; organs are packed in ice and flown, in the nick of time, to save dying patients; pilots use planes and helicopters to fight large fires; and relief agencies transport food and water to starving and thirsty people around the globe. Flight allows us to see like birds and move faster than the wind, and it has given us the ability to help those who could never be helped before. Can you think of other ways that "flying saves lives?" Let us count or, perhaps more accurately, illustrate the ways.

Good luck!

Art Contest Certificate of Authenticity

Name* (required) please print

6-9 10-13 14-17

Date of Birth* (required)

Age Group (age on 12-31-03)

Home Address* (required)

City* State* Zip*

Home Phone Number* (required)

School Name

School Address

City State Zip

School phone number

I/We certify that this is the original and unassisted artwork of:

Name of artist

Teacher, parent, or guardian's signature* (required)

Teacher, parent, guardian print name here

Certificate signed by artist's:

Teacher Parent Guardian

Entries must be postmarked by January 10, 2004.

When affixing this certificate (or a photocopy) to artwork, make sure it is fastened by tape or gluestick (please affix registration form after artwork is completed). In addition, please legibly print the name of the artist on the back of the artwork. Artwork should be sent to your state sponsor's office (see return address on the back of this brochure).

*The artist's date of birth, address, and telephone number are required for contest eligibility. Adult certifiers please make certain these fields are filled out correctly.

*"The exhilaration of flying is too keen,
the pleasure too great, for it to be
neglected as a sport." — Orville Wright*

*"Aviation is proof, that given the will, we
have the capacity to achieve the
impossible." — Eddie Rickenbacker*

National Air and Space Museum Calendar

Curator's Choice Lecture Schedule

Every Wednesday at noon, a Museum staff member talks to the public about the history, collection, or personalities related to a specific artifact or exhibition in the Museum. Talks typically last 10-15 minutes and begin at the Museum "Great Seal", in the Milestones of Flight gallery on the first floor.

Sept. 17, 2003

"The Fairchild K-3B: Focus on Aerial Photography"
Dorothy Cochrane

Sept. 24, 2003

"Geology and History of the Lunar Touchrock"
Bob Craddock

Oct. 1, 2003

"Terrain Boards and Flight Simulators"
Paul Ceruzzi

Oct. 8, 2003

"Heinemann's Hotrod: The Douglas A-4 Skyhawk"
Tom Dietz

Oct. 15, 2003

"Alberto Santos-Dumont: Brazilian Aeronautical Pioneer"
Can Hagedorn

Oct. 22, 2003

"Chemistry of the Martian Surface: Remote Sensing and On-Site Investigations"
Ross Irwin

Oct. 29, 2003

"Revealing the Wright Flyer: An Intimate Look at the First Airplane"
Peter Jakab

For more information visit:
www.nasm.si.edu

Opening in December 2003:

**National Air and Space Museum
Steven F. Udvar-Hazy Center**

Located at the Washington Dulles International Airport, the Udvar-Hazy Center will house 200 aircraft and 135 large space artifacts including the Space Shuttle Enterprise, SR-71 Blackbird, and B-29 Superfortress Enola Gay.

Virginia State EAA Fly-In Has Activities for Everyone

On September 20-21, 2003, hundreds of homebuilt, antique, classic and commercially built aircraft will gather at the Dinwiddie County Airport to celebrate the 100th anniversary of powered flight. Scheduled for static display will be the History of Flight Foundation's replica of the 1903 Wright Flyer.

After six successful years in which as many as 650 aircraft and 4800 people attended, The Virginia Council of EAA* Chapters, Inc., with support from the Virginia Department of Aviation, ExxonMobil Corp., the FAA, the Dinwiddie Airport and Industrial Authority, and hundreds of volunteers is sponsoring the 7th Annual Virginia State EAA Fly-in. Gate hours are 8:00 AM to 5:00 PM Saturday and 8:00 AM to 3:00 PM Sunday. The Dinwiddie County Airport (PTB) is off the I-85 Exit 61 five miles southwest of Petersburg. The new main airport entrance is on US 460 and the ultralight, powered parachute and RV camping entrance is slightly farther west on US 460 at the Industrial Park entrance..

This two-day family event will draw hundreds of aircraft of all types from surrounding states as well as thousands of drive-in attendees. Everyone can choose from a variety of forums and workshops, all related to aerospace history and technology. An air show will take place from 1:00 to 3:00 PM each day. The famous "Exxon Flyin' Tiger" will attend, with its owner/pilot Bruce Bohannon. This year Bruce will present a forum on his record braking flights. He has set 7 world records for time-to-climb and altitude in the highly modified "Flyin' Tiger". Aviation related companies will attend to sell their wares.

A donation of \$10 for persons 14 and older will be requested at the gate to help defray expenses. Children 13 and under are free. There is no charge for parking.

A new grass ultralight runway and a powered parachute circle will allow arrival and departure of these categories of aircraft during the fly-in. A number of privately owned military aircraft (War Birds) are expected..

Children will have a special tent with aviation activities designed for them including making a wooden wing rib or riding pedal planes. NASA Langley will attend with special kids activities. As a free activity, for the first time "control line" model airplanes will be available for kids to fly.

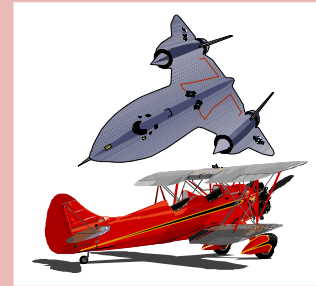
A traditional "Pancake Breakfast" will be served in the main hangar from 8:00 to 11:00 AM on Saturday and Sunday mornings. The breakfast includes sausage, juice, coffee pancakes for a donation of \$5.25. Food vendors will offer fast-food type items during both days.

There will be free Under-the-Wing camping for those who fly in. RV camping will be available for a donation of \$20 per night. The RV camping area will open Friday morning the 19th until noon on the Monday the 22nd for a donation of \$10 per night.. The RV campground is at the end of the Airport Industrial Park Road.

The Virginia Council of EAA* Chapters, Inc. (the VAEEA Council) is a non-profit, 501(c)(3) Virginia Corporation made up of nine Virginia EAA chapters. Members of five other aviation organizations also volunteer their time. The Council was formed in 1996 and intends to continue the Fly in as an annual affair.

*Experimental Aircraft Association, www.eaa.org.

*For the latest information log onto the Council web site, www.vaeaa.org.



VIRGINIA AVIATION MUSEUM CALENDAR

National Air Tour - Sept. 21, 2003

Here is a rare opportunity to see more than 25 vintage aircraft land at Richmond International Airport near the Virginia Aviation Museum. They are part of a historic journey that follows the path of an uncompleted 1932 tour. In groups of three; biplanes, tri-motors, monoplanes and flying boats begin to arrive around 9:00 a.m. They take off for the next destination beginning at noon.

Guest Speakers Series

Sept. 18, 2003

"The Wright Path to Flight." Hear Bryce VanStavern discuss the scientific processes the Wrights used to create and improve their 1900, 1901, and 1902 gliders. Free, 7:00 p.m.

The Man Who Flew the Memphis Belle - Sept. 27-28, 2003

Col. Robert K. Morgan, USAF (ret.) piloted the Memphis Belle, the first of the heavy bombers to return safely from 25 missions over Europe. At 2:00 p.m. on Saturday and Sunday, Col. Morgan shares his stories of how they managed that unheard of feat. He also signs his autobiography, "The Man Who Flew the Memphis Belle." Limited seating by advance registration only. Call (804) 236-3622 or visit vam.smv.org.

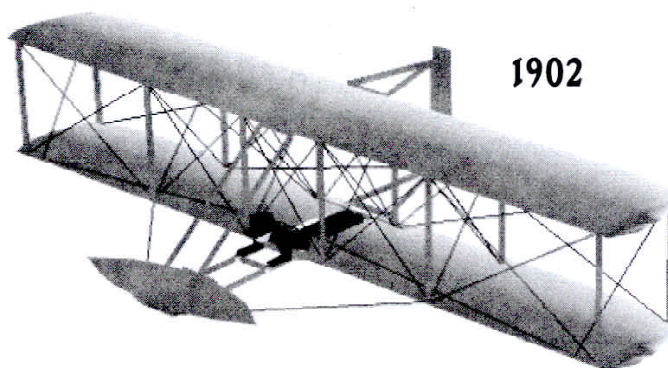
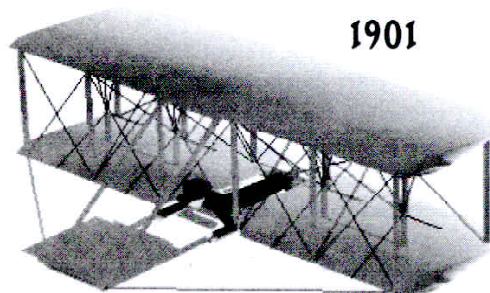
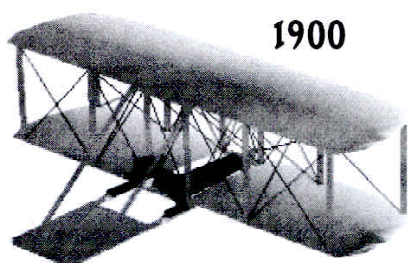


Rick Young in front of his replica Wright Flyer

Aviation Education Corner

Activity 14—Compare the 1900, 1901, and 1902 Gliders

Below are drawings of the gliders the Wright Brothers tested in 1900, 1901, and 1902. Notice that Wilbur Wright is the same size in all three, which means all three are drawn to the same scale.



1. Try to list five ways in which all the gliders are alike.
2. What are some of the ways that they are different?
3. The 1901 and the 1902 gliders both have about the same wing area and they weigh nearly the same. Why do you think the 1902 is a better glider?
4. Notice that in all three gliders, Wilbur is lying down. What do you think the effect would be if he sat up while flying them?

Summer Transportation Institute Visits Virginia Airports

Teenagers attending the annual Summer Transportation Institution Program (STIP) at Virginia State University were able to participate in a number of aviation-related experiences this summer. The Virginia Department of Aviation planned activities to give STIP students an overview of airplanes, airports, and aviation careers.

While on campus, students built and flew rubber band powered balsa aircraft (Delta Darts).

They also took a field trip to the Aviation Academy at Newport News/Williamsburg International Airport. The Academy is part of the Newport News School System and offers a unique opportunity for high school students to receive training in aviation and computers in an academically demanding environment. Both the STIP participants and their chaperones were impressed with the opportunities offered by this program, the professionalism of the staff, and the knowledge of the Academy students.

A highlight was being able to see the Academy's wind tunnel in operation as Mr. Singletary, of the Academy staff, explained how it is used. Mr Paul Storer of the Transportation Security Administration also spoke with the students about airport security. A tour of the Newport News/Williamsburg International Airport Terminal completed the morning's activities.

In the afternoon, students had lunch at the Williamsburg-Jamestown Airport, a general aviation airport, and received rides in aircraft operated by the local flight school. The weather was beautiful and the students were able to see recognizable landmarks such as Busch Gardens and Colonial Williamsburg.

The STIP program offers students the opportunity to learn more about a variety of transportation careers, including aviation, and is held for three weeks each summer at Virginia State University in Petersburg.

International Aviation Art Contest Winner Receives Gold Medal at Virginia Aviation Conference

In 2002, Ruthann Jones of Dale City, Virginia, submitted original artwork to the annual aviation art contest coordinated by the Virginia Department of Aviation. The theme of the contest was "Silent Flight." Ruthann's sailplane, hang glider, and hot air balloon gliding in front of a lovely mountain backdrop perfectly captured the theme and the eye of the judges. Her artwork was selected for first place in the Category for ages 7-9.

Her work advanced to the United States National Contest where it was also selected for first place. Ultimately Ruthann competed with art from twenty-one other countries at the International level. She was selected as the International gold medal winner in her category. After the International Awards Ceremony (which Ruthann was unable to attend) her medal, along with a certificate from the Federation Aeronautique Internationale was sent to the Virginia Department of Aviation for presentation.

Ruthann and her family attended the Virginia Aviation Awards banquet, held in conjunction with the 30th Annual Virginia Aviation Conference, on Thursday, August 21. Virginia Aviation Board Chairman, Roger Oberndorf and Virginia Department of Aviation Director, Charles Macfarlane (below with Ruthann) presented Ruthann her medal, certificate, and a congratulatory letter from Virginia Governor Mark Warner.



SCIENCE MUSEUM OF VIRGINIA CALENDAR

EXHIBITIONS

26th Annual Model Railroad Show - Sept. 20-21
Grossology: The (Impolite) Science of the Human Body - Sept. 27-Jan. 4
Mary Morton Parsons Earth-Moon Sculpture (kugel) - Permanent

MAX FILMS

The Human Body - thru Jan. 9
Extreme - thru Jan. 9
Lewis & Clark: Great Journey West - thru Jan. 9

MULTIMEDIA SHOWS

Follow that Star! Celestial Navigation - thru Jan. 11

LIVESKY: Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

SKYWATCH: Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000
Box Office: (804) 367-1080
24-Hour Skywatch Information: (804) 367-8277
24-Hour TDD Information: (804) 367-9760
General Information - TDD: (804) 367-6552
Group Scheduling: (804) 367-6552
Home Page: <http://www.smv.org>

VIRGINIA AIR AND SPACE CENTER CALENDAR

EXHIBITS:

1903 Wright Flyer
The Wright Brothers' Propeller Exhibit
Orville & Wilbur: The Wright Brothers Legacy Exhibit - Nov. 1, 2003 thru January 11, 2004

IMAX FILMS:

Ghosts of the Abyss
Adrenaline Rush: The Science of Risk (beginning Oct. 3)

CENTENNIAL OF FLIGHT LECTURE

SERIES:

Kitty Hawk: The Making of a Documentary
David Garrigus
October 1, 2003, 7:00 p.m.

Inventing Flight: The Science of Balloons, the Technology of Wings
Tom Crouch
November 5, 2003, 7:00 p.m.

A personal account: First Family of Aviation - The Wrights
Betty Geiger-Darst
December 3, 2003, 7:00 p.m.

Call (804) 727-0900 for showtimes
Visit the Center's Home Page:
<http://www.vasc.org>

Calendar of Events

Sept. 20-21, 2003

Virginia State EAA Fly-In will take place at the Dinwiddie County Airport. Sponsored by the Virginia Council of EAA Chapters. (www.vaeaa.org).

Sept. 20, 2003

Dulles Day (Plane Pull) will be held at Washington Dulles International Airport. (www.planepull.com)

Sept. 21, 2003

National Air Tour will stop at Richmond International Airport. (www.nationalairtour.com)

Sept. 27, 2003

8th Annual Wings and Wheels will take place at Hummel Air Field. (www.wingsandwheels.us).

Sept. 27, 2003

EAA Chapter 511 Fall Fly-In at Eagle's Nest (W13).

Sept. 29-Oct. 2, 2003

Safety Seminar "Say Intentions .. when you need ATC's help" will be held at the locations throughout Virginia. (www.doav.state.va.us/calendar.htm)

Oct. 4-5, 2003

EAA Chapter 186 Fall Fly-In will be held at the Winchester Regional Airport (OKV). For more info email eaal186@yahoo.com.

For more events visit: <http://www.doav.state.va.us/calendar.htm>.

Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.

_____ Regular Membership \$25.00 annually (July - Dec. \$12.50)

_____ Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)

_____ Corporate Membership \$100.00 annually (July - Dec. \$50.00)

_____ New Member _____ Renewal

Date: _____

Name: _____

Name of Organization: _____

Occupation: _____

Address: _____

City: _____ State _____ Zip _____

Telephone _____

Please Return to: Tom Tyndall, VASEF Treasurer
5702 Gulfstream Road
Richmond, Virginia 23250-2422



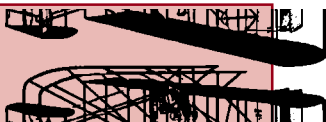
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Inside:

**2004
Aviation
Art Contest Rules and Form**

100th Anniversary of Flight



Please Post for Teachers